IN THE CLAIMS

1. (currently amended) An o~~O~~xidizing composition for dyeing, bleaching or permanently reshaping keratin fibres~~,~~ comprising:

a) at least one oxidizing agent, and

b) at least one compound ~~corresponding to the general~~of formula (I) ~~below~~:

$$R\text{-}(CHOH)_4\text{-}CO_2X \qquad (I)$$

~~in which~~wherein:

- R ~~represents~~ is a ~~group~~ CH_2OH or CO_2X group, and
- X ~~represents~~ is a hydrogen atom or a monovalent or divalent cation ~~derived~~ chosen from an alkali metal, ~~from~~ an alkaline-earth metal, ~~from~~ a transition metal ~~or~~, ~~from~~ an organic amine~~,~~ or an ammonium cation;

~~□~~with the proviso that, when R ~~represents~~ is a CH_2OH group, ~~the~~ said compound of formula (I) is other than gluconic acid ~~and~~or ~~the~~a salt~~s~~ thereof.

2. (currently amended) The c~~C~~omposition ~~according to~~of c~~C~~laim 1, ~~in which~~wherein ~~the~~said monovalent or divalent metal cation is ~~chosen from the group consisting of~~ a monovalent alkali metal cation~~s~~, a divalent alkaline-earth metal cation~~s~~, a divalent transition metal cation~~s~~ ~~and~~or a monovalent cation~~s~~ ~~derived~~chosen from an organic amine~~s~~ or ~~from~~ an ammonium cation.

3. (currently amended) The c~~C~~omposition ~~according to either~~ of c~~C~~laim~~s~~ 1 ~~and 2~~, ~~in which the~~wherein said compound~~(s)~~ of formula (I) is~~(are)~~ ~~chosen from the group consisting of~~ mannonic acid, altronic acid, idonic acid, galactonic acid, talonic acid, gulonic acid ~~and~~ or allonic acid.

4. (currently amended) The c~~C~~omposition ~~according to~~of c~~C~~laim 1, ~~in which~~wherein, ~~for the compound of formula (I),~~ R ~~represents~~is a ~~group~~ CO_2X group.

5. (currently amended) The c~~C~~omposition ~~according to~~of c~~C~~laim 4, ~~in which~~wherein ~~the~~said compound~~(s)~~ of formula (I)

~~is(are) chosen from the group consisting of~~ mucic acid, glucaric acid, mannaric acid, altaric acid, idaric acid, talaric acid, gularic acid ~~and~~or allaric acid, an~~the~~ alkali metal salt~~s~~ thereof, an~~the~~ alkaline-earth metal salt~~s~~ thereof, a~~the~~ transition metal salt~~s~~ thereof, an~~the~~ organic amine salt~~s~~ thereof or~~and~~ ~~the~~an ammonium salt~~s~~ thereof, ~~and~~or a mixture~~s~~ thereof.

6. (currently amended) The ~~C~~composition ~~according to~~of c~~C~~laim 5, ~~in which~~wherein ~~the~~said compound of formula (I) is mucic acid.

7. (currently amended) The c~~C~~omposition ~~according to any one of the preceding~~ claim~~s~~ 1, ~~in which~~wherein ~~the~~said compound~~(s)~~ of formula (I) ~~represent(s)~~is present in an amount of from 0.001% to 10% by weight relative to the total weight of the oxidizing composition.

8. (currently amended) The c~~C~~omposition ~~according to any one of the preceding~~ claim~~s~~ 7, ~~in which~~wherein ~~the~~said compound~~(s)~~ of formula (I) ~~represent(s)~~is present in an amount of from 0.001% to 5% by weight relative to the total weight of the oxidizing composition.

9. (currently amended) The c~~C~~omposition ~~according to any one of the preceding~~ claim~~s~~ 1, ~~in which~~wherein ~~the oxidizing composition comprises one or more~~said oxidizing agent~~s chosen from the group consisting of~~is hydrogen peroxide, urea peroxide, alkali metal bromate~~s~~, or persalt.~~s such as perborates, percarbonates and persulphates, and peracids.~~

10. (currently amended) The c~~C~~omposition ~~according to any one of the preceding~~ claim~~s~~ 1, ~~in which~~wherein ~~the~~said oxidizing agent~~(s)~~ ~~represent(s)~~is present in an amount of from 0.1% to 30% by weight relative to the total weight of the oxidizing composition.

11. (currently amended) The c~~C~~omposition ~~according to any one of the preceding~~ claim~~s~~ 10, ~~in which~~wherein ~~the~~said

oxidizing agent~~(s) represent(s)~~is present in an amount from 0.5% to 20% by weight relative to the total weight of the oxidizing composition.

12. (currently amended) The c~~C~~omposition ~~according to any one of the preceding~~ claim~~s~~ 1, ~~also comprising one or more~~further comprising a cationic or amphoteric conditioning polymer~~s, in proportions of from 0.01% to 10% by weight and preferably from 0.05% to 5% by weight relative to the total weight of said composition~~.

13. (currently amended) The c~~C~~omposition ~~according to any one of the preceding~~ claim~~s~~ 1, ~~also~~further comprising an amphiphilic polymer which is~~one or more~~ nonionic, anionic, cationic, or amphoteric ~~amphiphilic polymers,~~, wherein said amphiphilic polymer comprises~~ing~~ a hydrophobic chain~~, in proportions of from 0.05% to 20% by weight and preferably from 0.1% to 10% by weight relative to the total weight of said composition~~.

14. (currently amended) The c~~C~~omposition ~~according to any one of the preceding~~ claim~~s~~ 1, ~~also~~further comprising a~~one or more~~ surfactant~~s, in proportions of from 0.01% to 40% by weight and preferably from 0.1% to 30% by weight relative to the total weight of said composition~~.

15. (currently amended) The c~~C~~omposition ~~according to any one of the preceding~~ claim~~s~~ 1, ~~also~~further comprising ~~one or more~~a rheology modifier~~s~~ other than the ~~nonionic, anionic, cationic or amphoteric~~ amphiphilic polymer~~s, comprising a hydrophobic chain~~of claim 13~~, in proportions of from 0.05% to 20% by weight and preferably from 0.1% to 10% by weight relative to the total weight of said composition~~.

16. (currently amended) The c~~C~~omposition ~~according to any one of the preceding~~ claim~~s~~ 1, ~~also~~further comprising an~~one or more~~ acidifying or basifying agent~~s, in proportions of from~~

~~0.01% to 30% by weight relative to the total weight of said composition~~.

17. (currently amended) The c~~C~~omposition ~~according to any one~~ of ~~the preceding~~ claim~~s~~ 1, ~~also~~ further comprising ~~one or more~~a solvent~~s chosen from the group consisting of water and mixtures composed of water and of one or more cosmetically acceptable organic solvents, this or these solvent(s) representing from 0.5% to 20% by weight and preferably from 2% to 10% by weight relative to the total weight of said composition~~.

18. (currently amended) The c~~C~~omposition ~~according to any one~~ of ~~the preceding~~ claim~~s~~ 1, ~~also~~further comprising an~~one or more~~ adjuvant~~s~~ chosen from ~~the group consisting of~~ a mineral or organic filler~~s~~, binder~~s~~, lubricant~~s~~, antifoam~~s~~, silicone~~s~~, dye~~s~~, matting agent~~s~~, preserving agent~~s~~ ~~and~~or fragrance~~s~~.

19. (currently amended) The c~~C~~omposition ~~according to any one~~ of ~~the preceding~~ claim~~s~~ 1, ~~said composition being intended for bleaching or permanently reshaping human~~ wherein said keratin fibre~~s and preferably the~~ is hair.

20. (currently amended) A ~~Process~~ method of~~for~~ bleaching ~~or permanently reshaping~~ keratin fibres, ~~successively~~ comprising the steps ~~consisting in~~of:

a) applying to ~~the~~ said keratin fibres ~~an~~said oxidizing composition ~~as defined in any one~~ of c~~C~~laim~~s~~ 1 ~~to 19~~;

b) leaving ~~the~~said oxidizing composition ~~to stand~~ on ~~the~~said keratin fibres for a sufficient time ~~that is sufficient~~ to obtain the desired bleaching ~~or permanent reshaping~~;

c) rinsing ~~the~~said keratin fibres to remove ~~the~~said oxidizing composition therefrom.~~;~~

~~d) optionally washing the keratin fibres one or more times, rinsing them after each wash, and optionally drying them;~~

~~said process also comprising, before step a), in the case of a permanent reshaping, the steps consisting in:~~

~~i) applying a reducing composition to the keratin fibres, said keratin fibres being placed under mechanical tension before, during or after said application;~~

~~ii) leaving the reducing composition to stand on the keratin fibres for a time that is sufficient to obtain the desired reshaping; and~~

~~iii) optionally rinsing the keratin fibres with water to remove the reducing composition therefrom.~~

21. (currently amended) A method of ~~Process for~~ dyeing keratin fibres, ~~successively~~ comprising the steps ~~consisting in~~of:

~~e~~a) applying a dye composition to ~~these~~ said keratin fibres;

~~f~~b) applying said oxidizing composition of claim 1 to said keratin fibres to develop~~developing~~ the colour ~~of said composition by applying to the fibres an oxidizing composition as defined in any one of Claims 1 to 19~~;

c~~g~~) leaving ~~the~~said oxidizing composition ~~to stand~~ on ~~the~~said keratin fibres for a sufficient time ~~that is sufficient~~ to obtain the desired coloration;

~~h~~d) rinsing the keratin fibres with water to remove ~~the~~said dye composition and ~~the~~said oxidizing composition therefrom.

22. (currently amended) A method of ~~Process for~~ dyeing keratin fibres, ~~successively~~ comprising the steps ~~consisting in~~of:

~~i~~a) mixing a dye composition and the oxidizing composition of claim 1 to create a mixture;

b) applying said mixture to ~~these~~ said keratin fibres; ~~a composition obtained by extemporaneous mixing, before application, of a dye composition and of an oxidizing composition as defined in any one of Claims 1 to 19~~;

~~j~~c) leaving ~~the composition~~said mixture to ~~tand on the~~ said keratin fibres for a sufficient time ~~that is sufficient~~ to obtain the desired coloration;

~~k~~d) rinsing ~~the~~ said keratin fibres with water to remove ~~the composition~~said mixture therefrom.

23. (currently amended) A ~~Device or "~~kit~~"~~ for dyeing keratin fibres, comprising: at least two compositions A and B intended to be mixed together to obtain a ready-to-use dye composition,

wherein ~~the~~ said composition A ~~being the~~is an oxidizing composition and ~~the~~ said composition B ~~being~~ is a composition comprising at least one dye, ~~said device being characterized in that the~~

wherein said composition A contains at least one ~~or more~~ compounds ~~corresponding to the general~~ of formula (I) ~~below~~:

$$R\text{-}(CHOH)_4\text{-}CO_2X \qquad (I)$$

in which:

- R ~~represents~~ is a ~~group~~ CH_2OH or CO_2X group, and
- X ~~represents~~ is a hydrogen atom or a monovalent or divalent cation ~~derived~~ chosen from an alkali metal, ~~from~~ an alkaline-earth metal, ~~from~~ a transition metal ~~or~~, ~~from~~ an organic amine~~,~~ or an ammonium cation;
- ~~with~~ the proviso that, when R ~~represents~~ is a CH_2OH group, ~~the~~ said compound of formula (I) is other than gluconic acid ~~and~~ or a~~the~~ salt~~s~~ thereof.

24. (currently amended) A ~~Device or "~~kit~~"~~ for bleaching keratin fibres~~,~~ comprising: at least two compositions C and D intended to be mixed together to obtain a ready-to-use oxidizing composition, wherein;

a) ~~said device being characterized in that~~ said at least one of ~~the~~ said compositions C and D contains ~~one or more~~an oxidizing agent~~s~~, and

b) at least one of said compositions C and D contains ~~one or more~~a compounds ~~corresponding to the general~~ of formula (I) ~~below~~:

$$R\text{-}(CHOH)_4\text{-}CO_2X \qquad (I)$$

~~in which~~wherein:

- R ~~represents~~ is a ~~group~~ CH_2OH or CO_2x group, and
- X ~~represents~~is a hydrogen atom or a monovalent or divalent cation ~~derived~~chosen from an alkali metal, ~~from~~ an alkaline-earth metal, ~~from~~ a transition metal, ~~or from~~ an organic amine, or an ammonium cation;
- ~~with~~ the proviso that, when R ~~represents~~is CH_2OH, ~~the~~ said compound ~~(I)~~ of formula (I) is other than gluconic acid ~~and~~or a ~~the~~ salts thereof.

25. (currently amended) A~~Device or~~ "kit" for permanently reshaping keratin fibres, comprising: at least two compositions E and F, wherein

a) said composition E ~~being~~is an oxidizing composition comprising an oxidizing agent and a compound of formula (I):

$$R\text{-}(CHOH)_4\text{-}CO_2X \qquad (I)$$

wherein:

- R is a CH_2OH or CH_2X group, and;
- X is a hydrogen atom or a monovalent or divalent cation chosen from an alkali metal, an alkaline-earth metal, a transition metal or an organic amine, or an ammonium cation;
- with the proviso that, when R is CH_2OH, said compound of formula (I) is other than gluconic acid or a salt thereof, and

b) said composition F ~~being~~is a reducing composition. ~~, said device being characterized in that composition E contains one or more oxidizing agents and at least one or more compounds corresponding to the general formula (I) below:~~

~~$R\text{-}(CHOH)_4\text{-}CO_2X$ (I)~~

~~in which:~~

~~R represents a group CH_2OH or CH_2X, and;~~

~~□X represents a hydrogen atom or a monovalent or divalent cation derived from an alkali metal, from an alkaline-earth metal, from a transition metal or from an organic amine, or an ammonium cation;~~

- ~~with the proviso that, when R represents CH_2OH, the compound (I) is other than gluconic acid and the salts thereof.~~

26. (canceled)

27. (new) The composition of claim 9, wherein said persalt is perborate, percarbonate, persulphate, or peracid.

28. (new) The composition of claim 12, wherein said cationic or amphoteric conditioning polymer is present in an amount of from 0.01% to 10% by weight relative to the total weight of said composition.

29. (new) The composition of claim 28, wherein said cationic or amphoteric conditioning polymer is present in an amount of from 0.05% to 5% by weight relative to the total weight of said composition.

30. (new) The composition of claim 13, wherein said amphiphilic polymer is present in an amount of from 0.05% to 20% by weight relative to the total weight of said composition.

31. (new) The composition of claim 30, wherein said amphiphilic polymer is present in an amount of from 0.1% to 10% by weight relative to the total weight of said composition.

32. (new) The composition of claim 14, wherein said surfactant is present in an amount of from 0.01% to 40% by weight relative to the total weight of said composition.

33. (new) The composition of claim 32, wherein said surfactant is present in an amount of from 0.1% to 30% by weight relative to the total weight of said composition.

34. (new) The composition of claim 15, wherein said rheology modifier is present in an amount of from 0.05% to 20% by weight relative to the total weight of said composition.

35. (new) The composition of claim 34, wherein said rheology modifier is present in an amount of from 0.1% to 10% by weight relative to the total weight of said composition.

36. (new) The composition of claim 16, wherein said acidifying or basifying agent is present in an amount of from 0.01% to 30% by weight relative to the total weight of said composition.

37. (new) The composition of claim 17, wherein said solvent is water or a mixture composed of water and a cosmetically acceptable organic solvent.

38. (new) The composition of claim 17, wherein said solvent present in an amount of from 0.5% to 20% by weight relative to the total weight of said composition.

39. (new) The composition of claim 38, wherein said solvent is present in an amount of from 2% to 10 % by weight relative to the total weight of said composition.

40. (new) The composition of claim 1, further comprising a compound selected from a group consisting of:

a) a cationic or amphoteric conditioning polymer

b) an amphiphilic polymer which is non-ionic, anionic or cationic, wherein said amphiphilic polymer comprises a hydrophobic chain

c) a surfactant

d) a rheology modifier other than the amphiphilic polymer of (b)

e) a pH modifier, and

f) a solvent.

41. (new) The method of claim 20, further comprising the step of: washing said keratin fibres one or more times, rinsing them after each wash.

42. (new) The method of claim 41, further comprising the step of: drying said keratin fibres.

43. (new) A method of permanently reshaping keratin fibres, comprising the steps of:

a) applying to said keratin fibres a reducing composition;

b) leaving said reducing composition on said keratin fibres for a sufficient time to obtain the desired permanent reshaping;

c) rinsing said keratin fibres to remove said reducing composition therefrom;

d) applying the oxidizing composition of claim 1 on said keratin fibres for a sufficient time that is sufficient to obtain said desired reshaping;

e) rinsing said keratin fibres with water to remove said oxidizing composition therefrom.

44. (new) The method of claim 43, further comprising the step of: washing said keratin fibres one or more times, rinsing them after each wash.

45. (new) The method of claim 44, further comprising the step of: drying said keratin fibres.